

5 METHOD OF IMPROVING THE OPERATION OF AN EXISTING ETHYLENE  
OXIDE MANUFACTURING PROCESS AND SYSTEM

ABSTRACT

10 Described is a method of improving the process and  
operation of an existing system for manufacturing  
ethylene oxide. The ethylene oxide manufacturing system  
includes an epoxidation reactor system containing a  
volume of high activity epoxidation catalyst. The method  
includes replacing a portion of the volume of high  
15 activity epoxidation catalyst with a volume of high  
selectivity catalyst, and modifying the operation of the  
process system so as to provide for a feed to the  
epoxidation reactor system having a reduced carbon  
dioxide concentration.